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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/069,495

DATE: 03/07/2002  
TIME: 15:25:09

Input Set : A:\jab-1526.txt  
Output Set: N:\CRF3\03072002\J069495.raw

5 <110> APPLICANT: Luyten, Walter  
6 Naranjo, Jose  
7 Mellstrom, Britt  
11 <120> TITLE OF INVENTION: GAS1 POLYPEPTIDES  
15 <130> FILE REFERENCE: JAB-1526  
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/069,495  
C--> 19 <141> CURRENT FILING DATE: 2002-02-20  
19 <150> PRIOR APPLICATION NUMBER: PCT/EP00/08182  
21 <151> PRIOR FILING DATE: 2000-08-21  
25 <150> PRIOR APPLICATION NUMBER: EP 99306702.4  
27 <151> PRIOR FILING DATE: 1999-08-24  
31 <160> NUMBER OF SEQ ID NOS: 10  
35 <170> SOFTWARE: PatentIn Ver. 2.0  
39 <210> SEQ ID NO: 1  
41 <211> LENGTH: 1762  
43 <212> TYPE: DNA  
45 <213> ORGANISM: Rattus norvegicus  
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53 ggcccaggcc cgggttagagg gggaggggac caagcgtcct ggtcgccgga aggccggatg 120  
55 cagagctcgac aactgctacg cgctactgag cggggAACGA ggagccaccc gccacacgac 180  
57 cttctgcagg cgccttgcac catgcacccc cggcgccgca gtcctgcag ctttgcgcgc 240  
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61 cgcctctcag ggagccccgg cccgggtgcg ggagcaaaca cccgcctcta ccagccgcgg 360  
63 ggccgcgcgc atggatggat gaggacgcgc atgcacaag tgcgcggAAC tcggacaaac 420  
65 ttttccagcg gccccgcgcgc cgccacccga gcctcggttc cgctccgcac cgcgtccggc 480  
67 ggccgcgtct gcccgcgtat ctgcgcgcac tgctggcgcc cggcgaggcc cgctcgccg 540  
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73 agggagagcc ggactgcacg tacgcctaca gccagatgc cggaggcgtgt ggcgcgggtgc 720  
75 tcgcacagcg cggcgaggct gatgtcctgt ggccttcgg cgccttcgg tcctcgccg 780  
77 cgtccttcgc gccgcgtgg cgatgcccga gccactgcac ctgcgcgcgc atccagctca 840  
79 accacacgcg cgcgggcccc ggcgtggagg actgcgcactg cgcgcaggac gaacactgca 900  
81 ggtccaccaa ggcgcgcacatc gagccctgtc tgccgcgcac cagcagcgtg ggcgcggcgc 960  
83 cgggagcggg ctcggcgtatc ggcgtgcaccc aggcggccgc ggcgtgcgcac cgggacagcc 1020  
85 gctgcaaccc ggcactcgcc cgcgtatctag cctactgcgg caagctttc aacggcttc 1080  
87 gccgcaccga cgagtgcgcgc ggggtcatcg aggacatgtc ggcgggtgcgc aaggcggcgc 1140  
89 tgctcaacga ctgtgtgtgc gatgggctgg agaggccat ctgcgcgtgc gtcaaggaga 1200  
91 acatggcccg cctgtgttc ggcggcaggat cgagcaacgg tccgggcgc acgcgcgtcg 1260  
93 acggggccct agacgactac tacgacgaag aatatgtga cgagcagcgc gctggggccgc 1320  
95 cggcggcga gcaagccctg gacgacgacg acggccttgc ggcggccggc ggcggcgcgtg 1380  
97 ctggggcagg cggacgcggg gacttgcggc acggggccggg ggcgcaggagc agcagcagcg 1440  
99 gcagtggagg ccactggcgc acccgaagct cctggacccc gtttgcctgt tttctgctgc 1500

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101 tcctgctgct tgggtccac ttgttagcccc cgcccccctg ctgcaggcta ctccaggccg 1560  
103 gtacgcgcga cccagctgat tcccggacag ggcacacctg gctcgagac cggagatgtat 1620  
105 caggagcact gaccacact ctccgcgggt agacagggcc cagccgtac cgcaactacc 1680  
107 atgctcgccc ctttctgtg cggtttcca ggctgcagat aaaaccggcc gatctatact 1740  
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115 <211> LENGTH: 383  
117 <212> TYPE: PRT  
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131 Phe Gln Arg Pro Arg Gly Arg His Pro Ser Leu Val Ser Ala Pro His  
133 20 25 30  
137 Arg Val Arg Arg Pro Leu Leu Pro Ala Met Leu Ala Ala Leu Leu Gly  
139 35 40 45  
143 Gly Gly Gly Ala Arg Ser Gly Ser Leu Pro Gly Ala Leu Leu Cys Leu  
145 50 55 60  
149 Met Ala Leu Leu Gln Leu Leu Gly Ser Ala Pro Arg Gly Ser Gly Leu  
151 65 70 75 80  
155 Ala His Gly Arg Arg Leu Ile Cys Trp Gln Ala Leu Leu Gln Cys Gln  
157 85 90 95  
161 Gly Glu Pro Asp Cys Ser Tyr Ala Tyr Ser Gln Tyr Ala Glu Ala Cys  
163 100 105 110  
167 Ala Pro Val Leu Ala Gln Arg Gly Gly Ala Asp Ala Pro Gly Pro Val  
169 115 120 125  
173 Gly Ala Phe Pro Ser Ser Ala Ala Ser Phe Ser Pro Arg Trp Arg Cys  
175 130 135 140  
179 Pro Ser His Cys Ile Ser Ala Leu Ile Gln Leu Asn His Thr Arg Arg  
181 145 150 155 160  
185 Gly Pro Ala Leu Glu Asp Ser Asp Cys Ala Gln Asp Glu His Cys Arg  
187 165 170 175  
191 Ser Thr Lys Arg Ala Ile Glu Pro Cys Leu Pro Arg Thr Ser Ser Val  
193 180 185 190  
197 Gly Pro Gly Ala Gly Ala Gly Ser Val Met Gly Cys Thr Glu Ala Arg  
199 195 200 205  
203 Arg Arg Cys Asp Arg Asp Ser Arg Cys Asn Leu Ala Leu Gly Arg Tyr  
205 210 215 220  
209 Leu Ala Tyr Cys Gly Lys Leu Phe Asn Gly Leu Arg Arg Thr Asp Glu  
211 225 230 235 240  
215 Cys Arg Ala Val Ile Glu Asp Met Leu Ala Val Pro Lys Ala Ala Leu  
217 245 250 255  
221 Leu Asn Asp Cys Val Cys Asp Gly Leu Glu Arg Pro Ile Cys Glu Ser.  
223 260 265 270  
227 Val Lys Glu Asn Met Ala Arg Leu Cys Phe Gly Pro Asp Ala Ser Asn  
229 275 280 285  
233 Gly Pro Gly Ser Ser Gly Ser Asp Gly Gly Leu Asp Asp Tyr Tyr Asp  
235 290 295 300  
239 Glu Glu Tyr Asp Asp Glu Gln Arg Ala Gly Ala Gly Glu Gln

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241 305 310 315 320  
245 Pro Leu Asp Asp Asp Gly Leu Ala Arg Pro Gly Gly Ala Ala  
247 325 330 335  
251 Gly Ala Gly Gly Arg Gly Asp Leu Pro His Gly Pro Gly Arg Arg Ser  
253 340 345 350  
257 Ser Ser Ser Gly Ser Gly Gly His Trp Ala Thr Arg Ser Ser Trp Thr  
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263 Pro Phe Ala Cys Phe Leu Leu Leu Leu Leu Gly Ser His Leu  
265 370 375 380  
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273 <211> LENGTH: 1762  
275 <212> TYPE: DNA  
277 <213> ORGANISM: Rattus norvegicus  
281 <400> SEQUENCE: 3  
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285 cgcacagaaa agggccgagc atggtagttt cggtacgggc tgggcccgtt ctacccgcgg 120  
287 agagtgtggg tcagtgcctc tgatcatctc cggtctccga gccacaggtt ccctgctcgg 180  
289 gaatcagctg ggtcgccgtt accggcctgg agtagcctgc agcagggcgc cgggggttac 240  
291 aagtgggacc caagcagcag gaggcagcaga aaacaggcaa acggggtcca ggagcttcgg 300  
293 gtcgcccagt ggcctccact gccgctgtt ctgtcctgc gccccggccc gtggggcaag 360  
295 tccccgcgtc cgccctgcccc agcagcggccg cggccgggc ggcgaaggcc gtctgcgtcg 420  
297 tccaggggtt gtcgcggcc cgcggcccca ggcgcgttct cgtcatata ttcttcgtcg 480  
299 tagtagtcgtt cttagcccccc gtcgcggccg ctgtcgttccg gaccgttctt cgcacatctggg 540  
301 ccgaaggcaca ggcgggccat gttctcctt accgactcgc agatgggcctt ctccagccca 600  
303 tcgcacacac agtcgtttag cagcgcggcc ttgggcaccc ccagcatgtc ctgcgtgacc 660  
305 ggcgggact cgtcggttgcg gcgagaccg ttggaaagct tgccgcagta ggctagatag 720  
307 cggccgagtg ccagtttgcg gcgctgtcc cggctgcagc gccggccggc ctgggtgcag 780  
309 cccatgaccg agccgcgtcc cgcgcgggg cccacgttc tgggtgcggc cagacaggc 840  
311 tcgatggcgc gcttgggttgc cctgcgttgc tggagctgg atgagcgcgc agatgcgtt gctcgggcat 900  
313 gggggccgc ggcgcgttgc gttggatgttgc cggccggccg cggccggccg 960  
315 cggccgagtg gcgagaagga cgcggccggag gaggggaaagg cggccgacggg cccaggagca 1020  
317 tcagctccgc cgcgtgtgc gagcaccggc gcacacgcct cggcgtaactg gctgtaggcg 1080  
319 tagctgcagt cggctctcc ctgcacactgc agcagcgcctt gccagcagat gagcggccgg 1140  
321 ccgtgcgcca gccccggcc cccgcggccgagc gagcccgacactgcagc cgcacatcagg 1200  
323 cacagcaagg cgcggccaa gtcggccggag cggctccgc cggccggccag cagtgcggct 1260  
325 agcatgcggc gcagcagcgg cgcggccggag cggcgccggag cggaaacggag gctcgggtgg 1320  
327 cggccgccc ggcgcgttgc aagtttgcg gagttccgc cacttctggc atgggcgtcc 1380  
329 tcataccatcc atgcggccgg cccgcgttgc ggtagaggcg ggtgtttgtt ccagcaccgc 1440  
331 ggcggggctt ccgttgcggagg cgcggccggag cagggtccgc tccgatcgcc ggttggaaagc 1500  
333 gttcagtgtt gtcctgggg gacgcggccaa ggctgcggag gccgcggccgc cgggggttgc 1560  
335 tgggtcaagg cgcgtgcaga aggtcggttgc gccgggttgc cctcggttccc ggctcgttag 1620  
337 cgcgttagcag ttcgcagctc tgcatccgc ctggccgcga ccaggacgtt tggcccctc 1680  
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349 <212> TYPE: PRT  
351 <213> ORGANISM: Rattus norvegicus  
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357 His Cys Arg Ser Thr Lys Arg Ala Ile Glu Pro Cys Leu Pro Arg Thr  
359 1 5 10 15  
363 Ser Ser Val Gly Pro Gly Ala Gly Ala Gly Ser Val Met Gly Cys Thr  
365 20 25 30  
369 Glu Ala Arg Arg Arg Cys Asp Arg Asp Ser Arg Cys Asn Leu Ala Leu  
371 35 40 45  
375 Gly Arg Tyr Leu Ala Tyr Cys Gly Lys Leu Phe Asn Gly Leu Arg Arg  
377 50 55 60  
381 Thr Asp Glu Cys Arg Ala Val Ile Glu Asp Met Leu Ala Val Pro Lys  
383 65 70 75 80  
387 Ala Ala Leu Leu Asn Asp Cys Val Cys Asp Gly Leu Glu Arg Pro Ile  
389 85 90 95  
393 Cys Glu Ser Val Lys Glu Asn Met Ala Arg Leu Cys Phe Gly Pro Asp  
395 100 105 110  
399 Ala Ser Asn Gly Pro Gly Ser Ser Gly Ser Asp Gly Gly Leu Asp Asp  
401 115 120 125  
405 Tyr Tyr Asp  
407 130  
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415 <211> LENGTH: 26  
416 <212> TYPE: DNA  
417 <213> ORGANISM: artificial sequence  
420 <220> FEATURE:  
421 <223> OTHER INFORMATION: 5' primer from mouse sequence  
423 <400> SEQUENCE: 5  
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429 <211> LENGTH: 37  
430 <212> TYPE: DNA  
431 <213> ORGANISM: Artificial sequence  
434 <220> FEATURE:  
435 <223> OTHER INFORMATION: 3' primer from rat  
438 <400> SEQUENCE: 6  
440 ggatccgggtttaatacagtttatacgacgttaccagg 37  
443 <210> SEQ ID NO: 7  
445 <211> LENGTH: 15  
447 <212> TYPE: DNA  
449 <213> ORGANISM: Artificial Sequence  
453 <220> FEATURE:  
455 <223> OTHER INFORMATION: antisense oligonucleotide  
459 <400> SEQUENCE: 7  
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467 <210> SEQ ID NO: 8  
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471 <212> TYPE: DNA  
473 <213> ORGANISM: artificial sequence  
477 <220> FEATURE:  
479 <223> OTHER INFORMATION: oligonucleotide  
483 <400> SEQUENCE: 8

RAW SEQUENCE LISTING  
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491 <210> SEQ ID NO: 9	
493 <211> LENGTH: 15	
495 <212> TYPE: DNA	
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501 <220> FEATURE:	
503 <223> OTHER INFORMATION: antisense oligonucleotide	
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509 gagctggtgt tccat	15
515 <210> SEQ ID NO: 10	
517 <211> LENGTH: 15	
519 <212> TYPE: DNA	
521 <213> ORGANISM: artificial sequence	
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VERIFICATION SUMMARY  
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Input Set : A:\jab-1526.txt  
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L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date